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Certificate No.: TC-5548

QC ABSTRACT

NAME OF WORK: Improvements to Concrete Roads in Gatepalya Shettyhalli in Ward No.12, Shettyhalli Sub Division

SL NO	Item Of Work	Name of Test	Frequency of Test/Quantity	Executed Quantity	Number of Tests Required	Number of Tests Conducted
		Materials				
1	Cement	Fineness by dry sieving	One Test		1	1
		Finess by Air permeablity method	One Test		1	1
		Density	One Test		1	1
		Standard Consistency	One Test		1	1
		Initial Setting time	One Test		1	1
		Final Setting time	One Test		1	1
		Soundness (Le Chatelier's Method)	One Test		1	1
		Compressive Strength	One Test		1	1
2	Coarse aggregate(40 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
3	Coarse aggregate(20 mm down size)	SIEVE ANALYSIS	One Test		1	1
		Flakiness Index	One Test		1	1
		Elongation Index	One Test		1	1
		Specific Gravity	One Test		1	1
		Bulk Density(Loose)	One Test		1	1
		Bulk Density(Compacted)	One Test		1	1
		Water Absorption	One Test		1	1
		Aggregate crushing Value	One Test		1	1
		Aggregate Impact Value	One Test		1	1
4	Fine aggregate	SIEVE ANALYSIS	One Test		1	1
		Water Absorption	One Test		1	1
		Specific Gravity	One Test		1	1
		Material finer than 75 micron	One Test		1	1
5	Steel	Bend test	One Test		1	1
		Tensile Test	One Test		1	1
		Yield Test	One Test		1	1
		ReBend test	One Test		1	1
6	PCC(M20)	Compressive Strength(7days and 28days)	1 set /1-5 cum	3	2	2
7	RCC (M25)	Compressive Strength(7days and 28days)	7 set /151-200 cum	158.36	14	14
8	Cement Concrete Pavemet (M30)	Compressive Strength(7days and 28days)	11 set /350-400 cum	380.7	22	22
9	GSB	SIEVE ANALYSIS	One Test		1	1

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ಎಸ್.ಎಂ. ರಸ್ತೆ, ರವೀಂದ್ರನಗರ, ಬೆಂಗಳೂರು.

M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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Certificate No.: TC-5548

Format No: CP/TF/01

TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2021-03-13-20 **Date: 19-10-20**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Concrete Roads in Gatepalya Shettyhalli in Ward No.12, Shettyhalli Sub Division
Agency	:	M/S Technical Manager (West), KRIDL,Mo280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bengaluru-560010
Customer's Reference	:	EE/DD/WO/596/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-10-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 (Part 1,2 3,4,5, 6,11):1988 IS 4031 Part 1 DETERMINATION OF FINENESS BY DRY SIEVING, Clause 4.4 IS 4031 Part 2, Determination of Fineness by Blaine Air Permeability Method, Clause 5 IS 4031 Part 3, Determination of Soundness, Clause 5,Clause 6 IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 5, Determination of Initial & Final Setting Time, Clause 5 IS 4031 Part 11,DETERMINATION OF DENSITY , Clause 6
Date of test	:	17-10-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	Fineness by dry sieving (%)	1.85	–
2	Finess by Air permeablity method (m^2/kg,Min)	348.6	225m^2/kg, Min
3	Density (gm/cc)	3.15	–
4	Standard Consistency (%)	28.5%	Not specified
5	Initial Setting time	135 minutes	Not less than 30 minutes
6	Final Setting time	245 minutes	Not more than 600 minutes
7	Soundness (Le Chatelier's Method)	1.5mm	Not more than 10 mm

* The results obtained are satisfactory as per standard requirements.

Note:

The results pertain to the samples received and tested.

All information furnished by Customer/Representative

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Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Format No: CP/TF/01

Lab ID	:	CP-2021-03-13-20
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
		Date: 14-11-20
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Concrete Roads in Gatepalya Shettyhalli in Ward No.12, Shettyhalli Sub Division
Agency	:	M/S Technical Manager (West), KRIDL,Mo280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bengaluru-560010
Customer's Reference	:	EE/DD/WO/596/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-10-20
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	17-10-20
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength			
Sl.No.	**Physical properties**	**Results**	**Requirement as per IS 12269: 2013**
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	39.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	58.5N/mm^2	Not less than 53 N/mm^2

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2021-03-13-20** **Date: 19-10-20**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Concrete Roads in Gatepalya Shettyhalli in Ward No.12, Shettyhalli Sub Division
Agency	:	M/S Technical Manager (West), KRIDL,Mo280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bengaluru-560010
Customer's Reference	:	EE/DD/WO/596/2019-20
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	16-10-20
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	16-10-20

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	215	215	1.4	98.6	90-100
3	20 mm	7455	7670	51.1	48.9	30-70
4	10 mm	4266	11936	79.6	20.4	10-35
5	4.75 mm	2844	14780	98.5	1.5	0-5
6	Pan	220	15000	100.0	0	---

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2021-03-13-20 **Date: 09/11/2020**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Concrete Roads in Gatepalya Shettyhalli in Ward No.12, Shettyhalli Sub Division
Agency	:	M/S Technical Manager (West), KRIDL,Mo280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bengaluru-560010
Customer's Reference	:	EE/DD/WO/596/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-11-20
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 09/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M25	02/11/2020	09/11/2020	149.02 X 149.29 X 150.87	22248	8.709	523.6	23.5	22.9
2	Drain Side Wall Concrete	M25	02/11/2020	09/11/2020	151.28 X 150.31 X 151.84	22739	8.849	517.2	22.7	
3	Drain Side Wall Concrete	M25	02/11/2020	09/11/2020	151.51 X 150.04 X 151.49	22732	8.184	512.7	22.6	

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2021-03-13-20** **Date: 30/11/2020**
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Concrete Roads in Gatepalya Shettyhalli in Ward No.12, Shettyhalli Sub Division
Agency	:	M/S Technical Manager (West), KRIDL,Mo280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bengaluru-560010
Customer's Reference	:	EE/DD/WO/596/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	04-11-20
Customer ID	:	Drain Side Wall Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M25 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	30/11/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Side Wall Concrete	M25	02/11/2020	30/11/2020	151.14 X 150.28 X 149.20	22713	8.646	613.5	27.0	27.2
2	Drain Side Wall Concrete	M25	02/11/2020	30/11/2020	150.33 X 151.01 X 150.65	22701	8.641	593.6	26.1	
3	Drain Side Wall Concrete	M25	02/11/2020	30/11/2020	151.94 X 149.80 X 151.30	22762	8.582	648.2	28.5	

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	CP-2021-03-13-20
Customer	:	Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.
Address	:	Shettyhalli Sub Division, BBMP, Bangalore.
Project Name	:	Improvements to Concrete Roads in Gatepalya Shettyhalli in Ward No.12, Shettyhalli Sub Division
Agency	:	M/S Technical Manager (West), KRIDL,Mo280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bengaluru-560010
Customer's Reference	:	EE/DD/WO/596/2019-20
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-12-20
Customer ID	:	Cement Concrete Pavement
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M30 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date: 10/12/2020

Date of test : 10/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	03/12/2020	10/12/2020	150.50 X 149.91 X 151.14	22561	8.180	582.6	25.8	25.6
2	Cement Concrete Pavement	M30	03/12/2020	10/12/2020	151.91 X 151.23 X 150.40	22973	8.788	600.4	26.1	
3	Cement Concrete Pavement	M30	03/12/2020	10/12/2020	150.83 X 150.20 X 150.82	22654	8.888	561.4	24.8	

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Quality Manager

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M : 9972924526 | Tel : +91 80 23444801 | e : rechan6630@yahoo.co.in, civilproexperts@gmail.com

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : CP-2021-03-13-20 Date: 31/12/2020

Customer : Assistant Executive Engineer, Shettyhalli Sub Division, BBMP, Bangalore.

Address : Shettyhalli Sub Division, BBMP, Bangalore.

Project Name : Improvements to Concrete Roads in Gatepalya Shettyhalli in Ward No.12, Shettyhalli Sub Division

Agency : M/S Technical Manager (West), KRIDL,Mo280, 59th Cross, 17th C Main Road, 3rd Y Block, Rajajinagara, Bengaluru-560010

Customer's Reference : EE/DD/WO/596/2019-20

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-12-20

Customer ID : Cement Concrete Pavement

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M30 / 28 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 31/12/2020

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Cement Concrete Pavement	M30	03/12/2020	31/12/2020	151.66 X 151.85 X 149.11	23031	8.356	770.2	33.4	33.2
2	Cement Concrete Pavement	M30	03/12/2020	31/12/2020	149.19 X 149.56 X 150.21	22313	8.081	725.5	32.5	
3	Cement Concrete Pavement	M30	03/12/2020	31/12/2020	151.57 X 150.34 X 151.06	22787	8.585	768.9	33.7	

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Quality Manager

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